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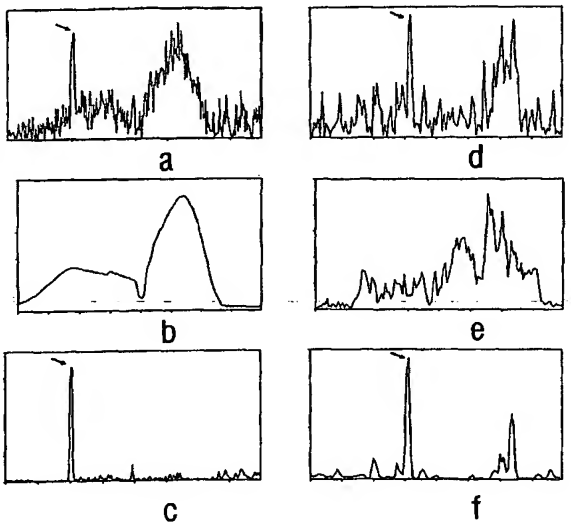

(57) Abstract: The invention relates to a magnetic resonance method for locating interventional devices, in particular in vivo, in which the interventional device bears a marking which in magnetic resonance images influences the measured signals or generates its own measured signals, where the measured signals are processed by means of a one-dimensional signal processing method in order to suppress noise and artefacts. This may in particular be the maximum entropy method, which can be further expanded by the use of model functions. These model functions are subtracted from the measured signals during the iterative method in order in this way to additionally improve the elimination of artefacts. As an alternative to the use of the maximum entropy method, the use of filters, in particular Wiener filters or bandpass filters, is also possible.

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